

US EPA RECORDS CENTER REGION 5



466784

Monthly Field Oversight Summary Report 3
ACS NPL Site
Griffith, Indiana
March 3, 2001 - March 30, 2001



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7L1)

BVSPC Project 46526
BVSPC File C.3
April 17, 2001

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report
No. 3 for March 2001

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 3 for March 2001 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 3

ACS Superfund Site WA30, 46526.238

Reporting Period: Month of March (March 3 - 30, 2001)

BVSPC O/S Dates: March 6, 8, 13, 15, and 27, 2001

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson, Warrenville, IL	2	Respondent's General Contractor
Black & Veatch Special Projects Corp. (BVSPC)	1	USEPA Oversight Contractor
Contract Dewatering Services	6	Extraction Trench & Well Installation
Koester Environmental Services	5	Underground Piping Upgrade
Ryan	2	Onsite Drum Staging Pad

Construction Activities

Major Activities:

- Extraction trench installation finished (Contract Dewatering Services).
- Underground conveyance piping upgrade finished (Koester Environmental Services).
- Quarterly Groundwater sampling (Montgomery Watson).
- Electrical control system upgrade (Austgen Electrical Services).
- Construction coordination meetings. (March 8 and 15, 2001).

Activities Performed:

Contract Dewatering Services completed extraction trench EW19, EW19A (March 5, 2001).

Clean out at EW20 was not recaptured because localized dewatering was not feasible. Contract Dewatering will attempt to recapture the clean out at a later date. This concludes Contract Dewatering Services activities.

Koester Environmental Services has completed all conveyance piping upgrade, but did not install the extraction pumps. The extraction pumps will be installed by Montgomery Watson at a later date. Montgomery Watson's field crew collected a full round of water elevations and samples from four

monitoring wells MW9R, MW10C, MW48, and MW49, plus appropriate quality control samples. BVSPC observed the collection of groundwater elevations and sampling equipment setup on March 27, 2001.

Austgen Electrical services was on site performing final upgrade to the groundwater treatment plant control system.

Attached are BVSPC's weekly reports and correspondences, log book notes, and photographs of the daily activities. BVSPC's one-man crew conducted oversight of the major field activities during March 6, 8, 13, 15, and 27, 2001.

Topics Of Concern:

- Infiltration of material in EW20 (noting the open clean out end is approximately 11 feet below ground surface).
- Alignment and placement of EW20A, B, and C extraction wells, appear in a serpentine alignment instead of the straight line detailed in the work plan (noting the west end alignment was moved south before installation).
- EW19 may have been compromised by installation activities when the trencher became lodged in the extraction trench during installation and bentonite was added to the trench to stabilize the walls.
- Montgomery Watson was unable to obtain a groundwater elevation at monitoring well MW-18 because of debris in the well. MW-18 is part of the long term monitoring program.

Concern Resolution:

- Extraction trenches/well integrity will be evaluated with a down hole camera (has been delayed until further notice).
- Alignment of the EW20 wells will be verified with the as built drawings supplied by Hansen Engineering.

Upcoming Activities:

- Koester Environmental Service has been selected as the drum removal contractor. Earliest date of drum removal activity would be April 23, 2001, because of staging pad construction and concrete curing.
- Clearing and grubbing of the offsite area (contractor has not been selected).
- Initial layout and installation of the onsite staging pad for onsite drum removal was started March 28, 2001, by Ryan Construction.
- Installation of the temporary cap and spoil pile consolidation in the offsite area (contractor has not been selected).

Note:

- BVSPC personnel Heather Foesch and Margaret Mulkerrin were oriented to the site in early March so that additional BVSPC personnel would be able to provide effective and informed oversight of the remedial activities, as needed.

Weekly Oversight Summary Report No. 1 ACS Superfund Site WA30, 46518.238

Reporting Period: Week of March 5, 2001

BVSPC O/S Dates: March 6 and 8, 2001

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson, Warrenville, IL	1	Respondent's General Contractor
Black & Veatch Special Projects Corp. (BVSPC)	2	USEPA Oversight Contractor
Contract Dewatering Services	6	Extraction Trench & Well Installation
Koester Environmental Services	5	Underground Piping Upgrade

Construction Activities

Major Activities:

- Extraction trench completion (Contract Dewatering Services).
- Underground conveyance piping upgrade, offsite area (Koester Environmental Services).

Activities Performed:

Contract Dewatering finished installing EW19 and EW19A on Monday March 5, 2001. Montgomery Watson noted the inefficiency of Contract Dewatering's well point system as a localized means of de-watering east end of extraction trench EW20. Montgomery Watson chose to delay recapture of the clean out at EW20 until the water elevation in the offsite area can be lowered. Friday, March 9, 2001, Montgomery Watson will evaluate the extraction trenches EW19 and EW20 with the use of a down hole camera. BVSPC observed the final backfilling of EW 19 and dismantling of the well point system.

Koester Environmental Services (KES) installed conveyance piping to the extraction wells on the west and east sides of the offsite area. Completion of the conveyance piping is tentatively scheduled for Friday, March 9, 2001. Conveyance pipe testing by KES will take place Monday March 12, 2001. Upon completion of the conveyance pipe testing, KES will start installation of the pumping

equipment in the extraction wells. BVSPC observed conveyance piping installation/welding on both the west and east sides of the offsite area including piping installation to manholes.

Topics Of Concern:

- The infiltration of material in EW20 (noting the open clean out end is approximately 11 feet below ground surface).
- KES hit drums in the offsite area during excavation of the conveyance pipe connection from the trench on the east side to the control house located in the center part of the offsite area. The drums were left in place and not disturbed. The conveyance piping was elevated 2 feet and placed above the drum area.

Concern Resolution:

- Contract Dewatering's health safety issues were handle with 100 percent oversight by Montgomery Watson per oversight recommendation.
- Extraction well integrity will be evaluated with a down hole camera.

Upcoming Activities:

- Koester Environmental will start pressure testing the conveyance piping and installing the pumping equipment on Monday, March 12, 2001.
- A contractor will be selected to clear and grub the offsite area in the next two weeks.
- The sump for the drum staging pad will be dug in the onsite area during the week of March 12, 2001.
- Weather permitting, the installation of the staging pad in the onsite area will begin.
- Austgen will run power to the offsite area starting March 12, 2001.

s:\gailey\asclosrpt\0305

Weekly Oversight Summary Report No. 2
ACS Superfund Site WA30, 46526.238

Reporting Period: Week of March 12, 2001

BVSPC O/S Dates: March 13 and 15, 2001

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson, Warrenville, IL	1	Respondent's General Contractor
Black & Veatch Special Projects Corp. (BVSPC)	3	USEPA Oversight Contractor
Koester Environmental Services	5	Underground Piping Upgrade

Construction Activities

Major Activities:

- Underground conveyance piping upgrade, offsite area (Koester Environmental Services).
- Montgomery Watson will secure a clay sample for the cap.

Activities Performed:

Koester Environmental Services (KES) completed installing conveyance piping to the extraction well in the offsite area on March 15. All conveyance pipe testing was performed successfully. Montgomery Watson will install the pumps and pumping control for KES because of the delay in equipment delivery and new configuration being proposed by Montgomery Watson. BVSPC observed conveyance piping installation/welding on both the west and east sides of the offsite area including piping installation to manholes. BVSPC attended the construction coordination meeting on Thursday March 15, 2001 (see attached memo). BVSPC had the following people performing oversight on separate occasions during the week of March 9, 2001: Chad Gailey, Jay Basso, and Margaret Mulkerrin.

Topics Of Concern:

- The infiltration of material in EW20 (noting the open clean out end is approximately 11 feet below ground surface).

- Alignment and placement of EW20A, B, and C extraction wells. An overview of the wells shows a serpentine alignment. The print calls for a straight line (noting the west end alignment was moved south before installation).
- EW19 may have been compromised by installation activities when the trencher became lodged in the extraction trench and bentonite was added to the trench to stabilize the trench walls.
- KES encountered a drum in the offsite area during excavation of the conveyance pipe connection from the trench on the east side to the blower shed located in the center part of the offsite area. The drum was left in place and not disturbed. The conveyance piping was elevated 2 feet and placed above the drum area.

Concern Resolution:

- KES drum encounter was resolved by elevating the conveyance piping 2 feet above the encountered drum area. The covering depth will be increased with the cap covering (blower shed area).
- Extraction well integrity will be evaluated with a down-hole camera (has been delayed until further notice).
- Alignment of the well will be verified with the asbuilt drawings supplied by Hansen Engineering.

Upcoming Activities:

- ATMW-4D will be abounded on March 21, 22, and 23, including installation of a replacement well.
- The sump for the drum staging pad will be dug in the onsite area during the week of March 19, 2001.
- Weather permitting, the installation of the drum staging pad in the onsite area will begin. Ryan Construction has been selected to install the staging pad.
- Previously BVSPC was told Augen would be running the power to the offsite area, but, were informed at the March 15 construction meeting that this may not be the case.
- Clearing and grubbing is still in bid stage.
- No construction coordination meeting will be held the week of March 19, 2001.

BLACK & VEATCH

MEMORANDUM

American Chemical Services
American Chemical Services 3/15/01 Meeting Notes

BVSPC Project 46526
March 22, 2001

To: Larry Campbell
Chad Gailey

From: Margaret Mulkerrin

The following is a summary of the meeting that occurred on 3/15/01 regarding the progress of the work at American Chemical Services:

Date: 03/15/01
Time: 10:00 AM
Location: American Chemical Services site; Griffith, IN
Purpose: Progress Update
Participants:

Tom Tinics (Montgomery Watson)
Lee Orosz (Montgomery Watson)
Todd Lewis (Montgomery Watson)
Jamie Bergeron (Koester)
Jay Basso (Black & Veatch)
Margaret Mulkerrin (Black & Veatch)

Summary:

Tom Tinics called the meeting to order.

Health & Safety: Remind Koester of decontamination procedures. Congratulated Koester on a job done without any incidents.

Jamie Bergeron gave an update on the installation of the conveyance piping: Thursday & Friday Koester finished the majority of the backfilling. All lines were pressure tested and passed. Tom noted that Montgomery Watson's Americas Division has copies of the completed pressure tests. Six (6) flow meters were installed. Today Koester was numbering the piping, installing lids on the vaults, deconing the equipment, and plan to be off the site by the end of today.

Tom and Lee are going to stake the trenches in order to locate the piping. Todd suggested they locate the pipelines using global positioning system (GPS), as stakes can only be temporary

The original date of 3/12 for the installation of the extraction wells has been postponed. The delay is due to parts that have not yet arrived, and to the fact that an electrical contractor has not been retained.

BLACK & VEATCH

MEMORANDUM

Page: 2

American Chemical Services
American Chemical Services 3/15/01 Meeting Notes

BVSPC Project 46526
March 22, 2001

Tom would like the construction of the concrete drum pad to begin next week. He hopes to begin on Monday, provided the weather conditions allow.

3/16 was Koester's completion date. Koester claims they will be off site by the end of today.

Clearing & Grubbing: Montgomery Watson is still obtaining bids for the job. They would like to start next week, if the weather allows. Tom mentioned that the clearing & grubbing might be postponed all together until before the final cap installation. Tom stated that clearing & grubbing was not required prior to the installation of the interim cap.

The next items to be focusing on are the construction of the pad for the blower shed, and the drum removal. The schedule of the drum removal is dependent upon the weather, as well as the drum pad installation, to be done by Ryan Construction.

There is no meeting scheduled for next Thursday. Tom Tinics will notify the necessary parties should that change.

Weekly Oversight Summary Report No. 3
ACS Superfund Site WA30, 46526.238

Reporting Period: Week of March 19, 2001

BVSPC O/S Dates: Canceled due to limited activities.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson, Warrenville, IL	1	Respondent's General Contractor
Black & Veatch Special Projects Corp. (BVSPC)	0	USEPA Oversight Contractor

Construction Activities

Major Activities:

- Transporting onsite staged drums to the offsite staging area.

Activities Performed:

Per BVSPC conversation with Tom Tinics (onsite engineer) on Thursday March 22, 2001, activities included the transport of drums from the onsite area to the offsite area. Montgomery Watson postponed well ATMW-4D abandonment and replacement until April. Tom Tinics provided no conclusive time frame for future scheduled activities.

Topics Of Concern:

- The infiltration of material in EW20 (noting the open clean out end is approximately 11 feet below ground surface).
- Alignment and placement of EW20A, B, and C extraction wells; an overview of the well shows a serpentine alignment. The print calls for a straight line (noting the west end alignment was moved south before installation).
- EW19 may have been compromised by installation activities, because the trencher became lodged in the extraction trench and bentonite was added to the trench to stabilize the trench walls.

Concern Resolution:

- Extraction well integrity will be evaluated with a down hole camera (has been delayed until further notice).
- Alignment of the wells will be verified with the as built drawings supplied by Hansen Engineering.

Upcoming Activities:

- ATMW-4D abandonment/replacement scheduled for April.
- The sump for the staging pad will be excavated in late March or early April.
- Weather permitting, the installation of the drum staging pad in the onsite area will begin. Ryan Construction has been selected to install the drum staging pad.
- Previously BVSPC was told Augen would be running the power to the offsite area, but were informed at the last construction meeting this may not be the case.
- Clearing and grubbing is still in bid stage.
- Drum removal contractor to be selected March 23, 2001.
- Quarterly groundwater sampling for indicator parameter will take place this month.

Weekly Oversight Summary Report No. 4
ACS Superfund Site WA30, 46526.238

Reporting Period: Week of March 26, 2001

BVSPC O/S Dates: March 27, 2001

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson, Warrenville, IL	7	Respondent's General Contractor
Black & Veatch Special Projects Corp. (BVSPC)	1	USEPA Oversight Contractor

Construction Activities

Major Activities:

- Quarterly groundwater sampling for indicator parameters.

Activities Performed:

Montgomery Watson's field crew collected water elevations from monitoring wells, piezometers, and staff gages within the ACS site boundary, the wetland area, the City of Griffith Landfill, and the areas that lie north, south and east of the ACS facility. Groundwater samples were collected from four monitoring wells MW9R, MW10C, MW48, and MW49, plus appropriate quality control samples. Groundwater parameters were evaluated and samples taken when three consecutive parameter readings were within 10 percent of the previous readings. BVSPC observed the collection of groundwater elevations and sampling equipment setup.

Topics Of Concern:

- The infiltration of material in EW20 (noting the open clean out end is approximately 11 feet below ground surface).
- Alignment and placement of EW20A, B, and C extraction wells; an overview of the well shows a serpentine alignment. The print calls for a straight line (noting the west end alignment was moved south before installation).
- EW19 may have been compromised by installation activities, because the trencher became lodged in the extraction trench and bentonite was added to the trench to stabilize the trench walls.

Concern Resolution:

- Extraction well integrity will be evaluated with a down hole camera (has been delayed until further notice).
- Alignment of the wells will be verified with the as built drawings supplied by Hansen Engineering.

Upcoming Activities:

- ATMW-4D abandonment/replacement scheduled for April 2, 2001.
- ORC well installation scheduled for the week of April 2, 2001, in the south area.
- Drum removal staging pad installation is scheduled to begin March 28, 2001. Ryan construction will be the contractor.
- Drum removal contractor will be Koester Environmental. April 23, 2001 would be the earliest start date.
- Offsite activities are still being evaluated.

s:\gailey\asc\osrpt\0326



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #1

Date: 03-06-01 Time: 09:26

Photographer: Chad Gailey

Description: Photo facing west at the offsite area
conveyance trench of KES drilling into
extraction manhole EW12.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #:2

Date: 03-06-01 Time: 10:22

Photographer: Chad Gailey

Description: Photo facing north at offsite area of KES
placing conveyance piping in the trench near
EW12.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #: 3

Date: 03-08-01 Time: 08:47

Photographer: Chad Gailey

Description: Photo facing north at EW19A of KES
pulling 2 inch conveyance piping.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #: 4

Date: 03-13-01 Time: 08:43

Photographer: Chad Gailey

Description: Photo facing west at EW20 of KES
installing conveyance piping into manhole
EW20.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #: 5

Date: 03-27-01 Time: 09:48

Photographer: Chad Gailey

Description: Photo facing north at MW48 of Stela Williams taking a groundwater elevation.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #: 6

Date: 03-27-01 Time: 10:05

Photographer: Chad Gailey

Description: Photo facing north at MW55 of Chad Smith taking a groundwater elevation.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 5 Photo #:7

Date: 03-27-01 Time: 10:49

Photographer: Chad Gailey

Description: Photo facing north at P10 in the offsite area of Rudy Stien taking a groundwater elevation.

CHC, CHD 612 264 444 444 444-0690 444

7/11/5
7/10/6

(88)

Chad Lahey 03/06/01

7:00 ARRIVED ON SITE @ ACS w/ Heather
Forsch, WEATHER Temp 24°F
Light Variable wind OVERCAST.

Onsite Today ARE the Following:

Contract Dewatering Services (CDS)
KOESTER ENVIRONMENTAL Services (KES)

Activities Include From AUSTGEN
will work on the Controling System
for Ground Water Treatment System.
Koester Environmental Services is
trenching in the off site AREA.

Contract Dewatering Services is
Demobilizing Equipment, Developing
of wells, Fixing the Gravel Around
the wells.

8:05 KES has trench AND LAYER CONVEYANCE
piping from EW-11 ON the west side
of the off site AREA to EW-12.
This AREA has been Backfilled
except for the area AROUND
EACH MANHOLE. KES is CURRENTLY
Laying PPE in the EXCAVATED
TRENCH from EW-12 to EW-13.
CDS ARE Pumping Spgr EW-20
to the Water Treatment Plant.

Chad Lahey

(89)

Chad Lahey 03/06/01

IN hopes to Lower water Level,
the pumps in the west end
of the Extraction trench.

9:20 Precise 1 Role 5 Facing West @
CONVEYANCE trench of KES drilling
into EW-12.

KES is Backfilling up to EW-12.
CONCERN Backfilling w/o Removing
water.

KES is Pumping WATER From the
trench to a temporary Holding Pond,
located in off site AREA Next to
EW-20.

10:02 Following People ARE ON Site TODAY

LEE GROSZ	MWCI
J WEBER	KES
Brandon Zobert	KES
John Dearnay	KES
ERIC BUCHANAN	KES
CHAD GAILEY	BVSP
HEATHER FORSCH	BVSP
GRYCZEWSKI	CDS
Rch Flores	AUSTGEN
TOM TIMICS	MWCI

Chad Lahey

(90)

Chad L. Lyle asadoi

10:22 CDS, Dick Naumann + Dennis Korman, —
there looking over what is left for
CDS to finish.

11:16 Picked 2 Role 5 Facing North
OFFSITE AREA of KES (Holes)
Piping in the framework near EWR

12:45 KES is stretching out the next
RUNS of 2" HDPE, from EWR-
EW-13.

13:00 A School Group is on site, from
Local Growth School participating in an
Educational tour. Local Rep. TRAVIS
Klingbeil an Water Treatment process
Engineer.

13:20 KES is welding 2" HDPE together.
CDS, has been Released of the
Responsibility of Connecting the
Cleanout to EW 20 until
the water is Drawn Down
Also the Retaining Rings and Lid
ARE Also Remaining off the Extraction
wells. CDS is going to the He
well tomorrow 13/7/01 AND
Camera the wells 13/7/01

14:05 Travis is updating the log

Chad L. Lyle

(91)

Chad L. Lyle asadoi

The water treatment Plant, —

15:12 Talk w/ Tom TIVICS (Mw) about
the well holes on the extraction wells.
Tom said the hole served to purpose
AND all the equipment is intrinsically safe
AND will be water proof.

Next Scheduled Activities

- 1) Continue w/ CONVEYANCES piping.
- 2) CLEAR GRUB in OFFSITE AREA.
- 3) USE A Super Vac to CLEAR the
extraction wells (03/07/01).
- 4) CAMERA the extraction wells.
- 5) Construct the on-site Staging PAD.

There were No Problems w/ Health + SAFETY
During OVSIGHT today.

15:30 Left for day.

Chad L. Lyle
03/06/01

(92)

Chad Salyer as of 3/31

7:00

ARRIVED ON SITE @ ACS WATER TREATMENT Bld. Weather 30°F OVERCAST light Northwesterly wind.

The WATER Treatment Bld is NOT OPEN AND I DON'T SEE Montgomery Watson ON SITE, Although Koster is ON SITE IN THE OFF SITE AREA. Trenching (KES) is NOW taking place ON THE East Side of the Site AND North Along EW 2, 9, 11, BC, + EW 19.

7:30

KES IS ON SITE BACK FILL IN THE OFF SITE AREA Next EW 11 + 13, ALSO Repairing the Fence in the S.W. Corner of the ON SITE AREA.

8:00

Tom Tines showed up from MW. KES HAS LAYED CONVEYOR Piping from the west Side of the Site to EW 11, 12, 13 + up the AIRCRAFT BULKING SITE, + Center to South END OF OFF SITE AREA.

8:40

There Seems to be NO Kinks w/eld. Local Competence. AND HAVE been Pressure tested.

Chad Salyer

(93)

Chad Salyer as of 3/31

8:47 Picture 3 Rte 5, Facing North @ EW 19A, of KES Pulling 2" HDPE 9:01 Picture 4 Rte 5 Facing West @ EW 15 Existing Extension well, of KES Pulling out the PIPE CONVEYOR CONNECTION.

9:17 TALK TO Tom TINES before the Construction PROGRESS MEETING.

- March :
- 1) Swamp in ON SITE AREA for Drain Removal (Rick, works ACS)
 - 2) AUSTGEN START RUNNING Pumps.
 - 3) KES will be finishing up.
 - 4) CLEARING Grubbing will tentatively take place this month (Contract to be Determine).
 - 5) Staging PAD in off Site Area in April. (weather Permitting)
 - 6) End of April / May Spoil Management AND Temp Camp.
 - * 7) Pump from a temp Pump from fire pond.

Chad Salyer

(94) *Chad Taylor* 03/08/01
1030 Meeting Construction Progress.

KES Issues

MCCF Timelines

MCC Rob Adams.

Health & SAFETY.

1) Tail BATES for KES remainder.

2) Pinch, Point, w/ operation.

3) Action Levels, Trench Safety.

4) KES is Prep for Level C

KES CONVEYANCE PIPE

1) Completion, on site & RCT

West Side, excavate to EW 11, 12, 13

Blower Shield AREA Completion

EW 17, 19, 19A AREA in pieces

Done today.

Tomorrow, 2-0320 Thru well

TESTING 8" plus some 2"

on Monday.

Stock Pile SANDS on site will be

USE @ Backfill.

Installation start Monday for

Valves, Pumps, etc. equipment

Pit Less Adapters.

Excavating to Blower Shield,

KES Run in to the Drums

Chad Taylor

(95) *Chad Taylor* 03/08/01
on the old site. Areas, Every
thing was placed back and
piping will be run above this
AREA.

KES should be Done Second week
in March.

Chad Taylor
03/08/01

96

Chad Lufkin 03/13/01

7:00 Arrival @ ACS w/ Margaret, Mulkenini
Weather, 29°F, Overcast, High Snow.
Activities today:

KOESTER ENVIRONMENTAL SERVICE IS ON

Site Installing CONVEYANCE PIPING.

8:43 Picture #4 KES Facing West
(@ E1020 (under)) of KES
installing piping into manhole.

9:14 Present Today are the following:
LEE OROSE MWCE

Janie Bergerson KES

Josh DeGruy KES

Brown Roberts KES

Jack Fiehl KES

Dave B Cox KES

9:47 met w/ Tom Tinnes about schedule
BISPC ask Q of Will the ORC is South
AREA still be going forward,
Tom will look into it.

BISPC ask Q of How will the spoil
be managed and covered in the
interim. MW Tomine said there
should be no log and there will
be no interrupting Cap.

[Signature]

97

Chad Lufkin 03/13/01

- 1) Clear Grubbing March 14 Start
- 2) Elevational maybe 1st April
- 3) Sump Pump Area March 19 week of
- 4) KES Final Finished March 16
Demob. the following week.
- 5) MW's securing a Clay Sample
3/14/01 for the Cap.
- 6) Camera of Trench Do Not Take
Place Yet.
- 7) Intern Cap will be After Spokes
management.

11:30 Talk To Mr. Campbell about Monthly
Report.

11:45 Lunch

12:15 Back on Site walk Margaret
AROUND the wells in the North
AREA.

13:37 KOESTER is Deconning their
EXCAVATOR ON the DECON PAD.
Next to Water treatment Bld.

13:47 KES IS INSTALLING Pumping Equipment
IN Extraction Wells E1019.

15:20 Leave Site

[Signature]

(100)

Margaret G. Mulken 3/15/01

before the final cap installation.

Tom stated that the clearing & grubbing was not required prior to the installation of the interim cap.

- The next items to be focusing on are the construction of the pad for the blower shed, & the drum removal.

The schedule of the drum removal is dependent upon the weather, as well as the drum pad installation, ~~of the interim~~^{main} cap. to be done by Ryan Construction.

- There is no meeting scheduled for next Thursday. Tom Tinics will notify the necessary parties, should that change.

Margaret G. Mulken
03/15/01

(98) Margaret E. Mulkerin 3/15/01

ACS Weekly meeting notes.

DATE: 03/15/01

TIME: 10:00

LOCATION: American Chemical Services, Griffith IN

PURPOSE: Progress Update

PARTICIPANTS: Tom Tinics (Montgomery Watson)
Lee Orosz "

Todd Lewis "

Jamie Bergeron (Koester)

Jay Basso (BVSPC)

Margaret Mulkerin (BVSPC)

SUMMARY:

- Tom Tinics called meeting to order.
- Health & Safety: Remind Koester of decontamination procedures. Congratulated Koester on a job done without any incidents.
- Jamie Bergeron gave an update on the installation of the conveyance piping: Thurs. & Fri. Koester finished the majority of the back-filling. All lines were pressure tested & passed. Tom noted that Montgomery Watson's Americas Division has copies of the completed pressure tests. Six (6) flow meters were installed. Today Koester was numbering

Margaret E. Mulkerin

(99) Margaret E. Mulkerin 3/15/01

the piping, installing lids on the vaults, deconing the equipment, & plan to be off the site by the end of today.

- Tom & Lee are going to stake the trenches in order to locate the piping. Todd suggested they GPS the pipelines, as stakes can only be temporary.

- The ^{original} ~~only~~ date of 3/12 for the installation of the extraction wells has been postponed. The delay is due to parts that have not yet arrived, and to the fact that an electrical contractor has not been retained.

- Tom would like the construction of the concrete drum pad to begin next week. He hopes to begin on Monday, provided the weather conditions allow.

- 3/16 was Koester's scheduled completion date. Koester claims they will be off site by the end of today.

- Clearing & Grubbing: MW is still obtaining bids for the job. They would like to start next week, if the weather allows. Tom mentioned that the clearing & grubbing might be postponed altogether until

Margaret E. Mulkerin

(68)

Chad Smith 03/29/01

7:00

ARRIVED ON SITE @ ACS (GUTP, WEATHER
Temp 3PF, Sunny & Partly Cloudy w/
Light S.W. Breeze

TODAY Montgomery Watson will
Sample for Indicator Parameters @
the the Indicator wells MW48,
MW49, MW9R, MW10C. Along with
taking a Complete Panel of Ground-
water elevations.

Note: All Construction RAC Oversight is in
the Groundwater Treatment Plant up beam & Field
work. Log Book #12.

8:00

The Follow personnel ARE ON SITE:

LEE OROZCO MUSEE (Plant Operator)

Chad Smith MW

Rudy Stien MW

Stela Williams MW

Rebecca Content MW

Peter Dorley MW

Tom Timics MUSEE Construction Eng.

8:30

The Group is splitting up to take
water level measurements.

I'm talk w/ Tom Timics about
upcoming activities.

W/Photo
Picture #1215

Chad Smith

(69)

Chad Smith 03/29/01

9:38

met up with Pete & Rebecca
in the South Fern Field area
on there way to MW50,

9:48

Picture 5, Rate 5 of MW48 w/
Stela taking water elevations.

10:05

Picture 6, Rate 5 of MW55 w/
Chad Smith Stela WATER Levels

10:49

Picture 7 Rate 5 of P10 in off site
area of Euc. Collet island.

11:23

Rudy Stien is finishing in the
off site AREA measuring water
levels.

12:35

Everyone met Back @ water treatment
Plant to check the status of Everyone.

1:35

Rudy + Chad ARE on site Area monitor
wells.

11:40

Left Site on day. Chad Pete are
laying out for ORC, Chad did
not know if MW had clearance
from the town of Griffith to use
the right away.

Chad Smith
03/29/01

Chad Smith

70

Chad Smith 03/27/01

Questions Asked to Chad Smith
About the Drilling Activities
Coming up.

- 1) Has MW set up Access Agreement
with private property owner AND
the City of Griffith, Chad Smith?
Responded I'm Not sure
Alex Alwood is Responsible
- 2) How many well and share
location of PATE Vogt is
Coming out today to take
a Site Assessment of the
locations.
- 3) Is there an approved work plan?
I don't know at this time.
- 4) Will MW Attempt to Re-develop
MW18. I don't think so.
Note Chad Smith is the H&S
Site Geologist for MW.
Activities for ORE well installation
and Abandonment of ATMW - HP Start.
April 2, 2001.

Chad Smith
03/27/01

(100) Margaret G. Mulken 3/15/01

before the final cap installation.

Tom stated that the clearing & grubbing was not required prior to the installation of the interim cap.

- The next items to be focusing on are the construction of the pad for the blower shed, & the drum removal.

The schedule of the drum removal is dependent upon the weather, as well as the drum pad installation ^{min} of the interim cap.

- The cap. to be done by Ryan Construction. There is no meeting scheduled for next Thursday. Tom Trivics will notify the necessary parties, should that change.

Margaret G. Mulken
03/15/01

(101)

Chad L. Luley 03/27/01

7:00 Arrival on site @ ACS Groundwater Treatment Bldg. to Sign in.
WEATHER Temp 31°F Sunny & Pretty
Clerely w/ light SW Breeze.

Note for today's Activities ARE ACCOUNTED for in the Groundwater Sampling Log Book #11, because the Activities for today are the Quarterly Groundwater Sampling For Inactivation Parameters.

8:30 Talk w/ Tom Trivics about Construction Schedule:

- 1) Drum Removal will take place @ the earliest April 23,
- 2) Contractor will be KOESTER Environmental.
- 3) Pad for Staging has been moved west. Due to Conflict w/ ACS, Activities for Pad Construction will start March 28th.
- 4) OFF site Activities, Clear Grubbing, Spoil Pile Consolidation, Plus Intermediate Cap ARE on hold.

Chad L. Luley
03/27/01

Construction Schedule for Pad #1

Constructed by; Ryan Construction

Task	Begin	Complete
Lay out dimensions and stake out	Monday, March 26, 2001	Monday, March 26, 2001
Grading and setting sub stone	Wednesday, March 28, 2001	Friday, March 30, 2001
Setting forms for the first of three pours.	Friday, March 30, 2001	Friday, March 30, 2001
First pour in first of three	Monday, April 2, 2001 Poss. Tuesday.	Monday, April 2, 2001 Poss. Tuesday.
Form and pour second of three	Tuesday, April 3, 2001 Poss. Wednesday	Tuesday, April 3, 2001 Poss. Wednesday
Form and pour third of three	Wednesday, April 4, 2001 Poss. Thursday	Wednesday, April 4, 2001 Poss. Thursday
Poss. Final of three pours	Thursday, April 5, 2001	Thursday, April 5, 2001
Remove forms and clean up site.	Friday, April 6, 2001	Friday, April 6, 2001
Saw cut and seal expansion joints	Week of April 9, 2001	Week of April 9, 2001
Dig and install conveyance piping from Ryan pad sump to extraction well #18 (Excavation by Rick Balder Scheduled through Lee)	Monday, April 9, 2001 Possibly Tuesday	Monday, April 9, 2001 Possibly Tuesday
Pad ready for use		Week of April 23, 2001

*O2C
well installation
April 2
Abandoned #1 (week 47)*

*1st possible week
of removal
Re Gravel
Grubbing
16th April
23 April ?*